The Oldest American Aeronautical Magazine

JULY 21, 1924

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VOLUME XVII

SPECIAL FEATURES

NUMBER

NEW GOVERNMENT BIDS AND ORDERS THE BRITISH AIR ESTIMATES ANALYSED SIDE LIGHTS ON THE PARIS TO TOKYO FLIGHT INTERNATIONAL REQUIREMENTS FOR AIRWORTHINESS

> GARDNER PUBLISHING CO., INC. HIGHLAND, N. Y. 225 FOURTH AVENUE, NEW YORK

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July 22, 1984



For Human Locomotion

Wells wotes that "hy 1909 the acroplane was available for human loopmotion." It is an enteresting coincidence that since 1909 exactly, The Glein L. Martin Company has been building oral-

Without discounting the vital proportunce of airolanes is military and strictly opportu-

With this end in year. Martin Marries nece 1909 at an unusually high postbut are being steadily advanced today to new standards. Martin engineering

THE GLENN I. MARTIN COMPANY Builders of Quality Aircraft since 1909

LOOK THIS LIST OVER CAREFULLY The last of the Government surplus instru-

2001 Alternative Typess 9" Institutes faces 19800 ft. Technique MCH O to 2000 EPM leaves del

LISED INSTRUMENTS

Albander Type: 5" benefits fore 0 to 19000 to Albander Type: 5" benefits fore 0 to 19000 to Denium subsets Sperry 270" from record type Air Speed understor Breaks 40 to 150 MPH Air Speed understor NCE: 40 to 100 MPH Air Speed industry Fundame 10 to 120 MPH. Print level for RCR new Venture take for Balls French type dealer threat Venture take for Ideape French type reagle threat Copper rating E/F* is in language and foot Copper rating E/F* is in language are from Wate for our complete his of used as-

of our course, technicators, absenters, etc. JOHNSON AIRPLANE & SUPPLY CO. DAYTON, OHIO

ILLY 21, 1924

AVIATION

International Representation for Asympthesis. 777 Laboratic Republic Managed The "The West Ward Plat" TD Airports and Accuracy 760 United States Asr Parers GARDNER PUBLISHING COMPANY, Inc., Publishers

Publication office Inhormation union. Four dulines per year. Single report. Legal overs Woodsa. Forms above ton data presumate. ter entite. Counts, for deline. Forego, no deline: Evered as econd-less matter for 25, 150, at the a per. Copyright 1514, by the Genteer Publishing. For Open at Highbord, N. Y., switer not of Merch Communication.

THESE FOUR CARDINAL VIRTUES AN EXTENT AS IN THE BOEING PURSUIT IN EXCOGNITION OF THE FACT THE UNITED STATES GOVERNMENT HAS INCLUDED A NUMBER OF THESE PLANES IN THE PRINCET BUILDING PROCESS.

ROWING AIRPLANT COMPANY CONTRACTORS TO UNITED STATES GOVERNMENT GEORGETOWN STATION, SEATTLE, WASH, ATTATION

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P. D. Manuscott.

AVIATION

Lanstan o'Oect Vincous E. Class

What are you going to do this summer?



Why Not Spend a Couple of Profitable Months at

THE CURTISS FLYING SCHOOL

We teach you to fly, give you an amplane in good flying condition, with a new OX5 motor and instruct you in its care, for a total of \$675.

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Machines available at all times for Connectical Flying—Air Photography
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Wife to Resider

CURTISS EXHIBITION COMPANY



AVIATION

JULY 21, 1924

A Continuing Air Program

De CAL works mer of the period as the compared Difficulty of the control of the c

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If you days of down to short and non-top flights from
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Helium, Hydrogen and Sanity
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a month for and against the use of belows for similars.

As far as we have been sible to discover, an east having the leavest open which is discover, an east having the leavest open of surface separate hitmen maps for specific purposes where its new model authorities more disappears.

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Side Lights on the Paris to Tokyo Flight Constructional Details of the Berguet 19A2 and of the 400 hp. Lorning-Dietrich Engine The constitute is of the constoner type, the forward out nan-various through the conclusive beant formed to receive the The connector rule are of the oppositionally educated

Contractive significant is effected by seems of a on-

The Bregust 19A2 Plane

The Larraine-Dietrich Engine

Two twin Zenth enghancing, of the spray and constant

Output dominan at the Researt 19.42 pages (\$64 day banks)

and of our of the equalisativ. Providen is made for device

Deiny's Long Range Machine

Corney new to the story of the Peris to Tokyo Flight, hiro o "raped loanes" between Pyrace and French Indo-

Although the first mesupaper proofis were to the effect

thery propagation, this was not enterely accounts. While it wold change his sugine, no that he had to sely upon the

time in Draw was to fir over to give him the benefit of that reference and also weather forecasting services. All tir : 'ld Fight expedition authorized the French firer to note -- of the feel depoin lead set on our Thursday

The principalitation conditions of the route were very care-

y shared from an Anglet boseycome refiner of the re-

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Late 15, 1606

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of which it was found that the most favorable senses for making the flight extended from Angli 10 to May 15. The

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To discount with extend a further late and 90 thing bear. The Breatest 1942 des banks (460 to Lavrine-Dirty h

on thick Line, Polleter Dairy and Sept. Bernard Bears (standard) from Frem Parts, France, in Shoughs, Clim equal than the more common copper simulation allow used

the serchagier' place was rether wern and stelly, as new bo guthered from one of Dony's letters, where he states that bloom is "an pen feture". In addition to the above changes, nes walker. The survey space marks were so follows: One

Then equipped Dolor's Brignet had a high speed of 530 ma. he seed a creating range of approximately 1000 in: at a specied of 120 ms /hr. The safety factor is 8 as against 12

Property of Laurence of the Flight

sel with a 200 kp engine, the new Briggest with the 460 kp. Larvailae mining descentizated at the Peris Dakyo flagin that



July 21, 1994

of removatation. The Redick needless is nessewhat rander

in a form modified to will our needs would cortainly be now

It is very interesting to look over the estimates for the a Bren of \$35,820,000 for the purchase of assertift and regime there is eiten the detailed not of the complete mathem.

The following will be considered mong or procedexchang Markeys which are had; especially for the peryear of mortiag or technical performances, to the encioned (1) The following will be exceededed research or experi-To incure, social educations, settle photography, forest patiet work,

The nethorities of the state on which the tests are carried

conducer with the preceding conditions will be convoled

emplifiate, of its various parts shall be specificated. No witel

Repairs authorized between the various bests and between

Ereahdouns - Repairs - Inspections



A beauties or how. The Pathon control of this N1, shown leading in Fig. 2, has massed to control the accommodation Pix 4 shore a private cabin, Fig. 5 the personger salan, and Fig. 1 on origin moralis. Capt U Nabile, designer of the

want of the province many local bears of Saturas or West In- since text periods, and shall optical of a rest of a trial The melaned resource test shall last at least held up hour.

The threat too shall save be extremed in the case of ob-

instan, D. C., Jane 11

to the appropriate direction and under similar emolitions to Government Bids and Orders The Standard Intonetic Products Co. of Corry, I'e.

Increatenal Tool Co. Davies, Cho. 2001 The Davison West Wheel Co. of Davison Ohio, was the low holder on 1000 sarplane wheels, 30 s S, under Air Service A . Service Assurate. Awards meds by the chief of sir his or which were spread on dates indicated; Cor. 142,

sur 5r. 5050, 5d. 6650, 5y, 8750, 5h, 6556 ing A. E. Co., 18m 1, 90,209 10, 8000 ... -ing A. E. Co., 18m 1, 90,209 2, 9600 screpted, 3, -1, 6,000,000, 120 days, 5c, 04,000, 0c, 81,000 ... -1, 51,000 5c, 9270, 51, 9800, 7c, 8800, 7b, 81,000 ... -1, 21,000 2, 8600 5, 82,000 4, 972,000 120 days, 62,000 ... vs. L. Martin Co., stem 1, 84,500 ; 2, 81,250 ; 3, 81,450 . 1,000, 0 months; Sa. 85,900; Sc. 5000; Sa. 53,600; Sd. Sa. 8550; St. 8900; Sa. 8500; Sb. 8550. MacQueen, alt., design subsected in contanction with Macquess, etc., origin informed in communities with all mounts and descriptions entered by Hadf, Daland & Co. 1 rebert Co., issue 5, 85,000, 5, 81,000, 5, 82,000, 6, 828, 190 days; Sa, 85,500, Sb, 81,550, Se, 85,500, Se, 8230, 10. Sept. 10. Co., Heart S., 82,600. Z., 9580, secrepted. 3, 4, 945,500 or 847,000. 120 days. Sa. 931,250. Sc. 93,000. 1.550 S.A. 8500 Sc. 8575 Sr. 61.750 Ser. 61.755 Se. ones Morse & Co., Sen 1, 8700; 2, 8250, accepted. ser: 4, 843,000, 150 days, 5c, 87,500, 5b, \$3,000, 5c, \$5,750. 54. 100; 54. 8135; 55. 8400; 59. 8275; 58. 8250. 54. 100; 54. 8135; 55. 8400; 59. 8275; 58. 8250. A lastic Astronom Corp., iden 1, 63,500; 2, 8000; 6, 825,000; 58. 10.1 ofter receipt of engagement; 56. 65,000, 50. 83,000 nothing type, \$500, and type; Se, \$5,000; 54, \$350; 5e, \$225; 5t, -15, bg, \$900, 5k, \$675 K-bhouse-Potts Co., stem L. 80,500; 2, 8580; 3, 81,000; 4 WOUND OF \$10,000 St. \$2,000 Sc. \$5,000 St. \$1,000 Sc. 500 Sf. \$1,000; Sg. \$1,000; Sh. \$1,500. American Plane & Moior Co., stem 1, \$15,000; 5, \$1,000; 1, 515,000; 6, \$15,000; 6, \$15,000; 6, \$2,500; 6, \$25,000; G Elias & Bro. Mer. tons 3, 85,000; 2, 9750; 3, 82,500; 4, 517,000; 5a, 85,000; 5a, 81,000; 5c, 87,000; 5d, 8700; 5d,

to Cook Field No. 67, Bule and Assects-Bule records Jan. 5, cor. 57, by the organizating division, all survise Mo-

are two simplices, typeX, Z, word incred test model, J, I

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July 15, 1904

Airplant Co., ties 1, 82,000; 2, 81,000; 3, 82,000 4, 210,500, 290 Avvet Se. 26,000; Se. 21,000; Se. 25,000; Sel. Sirv. Sr., 8489; Sr., 81,000; Su. 8500; Sh., 8880. Cr., Eleman Co., Barn L. 80,000; S., 8750; S. 83,000; 4, 840. 001, slt. \$45,900, 4 months; Sc. \$5,500, alt. \$5,500; Sb. \$600, slt. \$62,000; Sc. \$52,000; Sc. \$600, Sc. \$600, Sc. \$600; Sc. \$ Stoff, Deland & Co., time 1, 67,500; 2, 63,600; 3, 63,000; 5, 67,500, 4 months, in. 83,600, 5h, 81,000, 5c, 81,000, 5d. 1301, Sr. \$230, Sr. \$540; Sg. \$360, Sh. \$610 Jeco 13, etc. 126 by the engineering division, ser service, McCoh Field, Dayton, Olon, for 3 propaler behe: Cir Mochae and Tool Co, Dayton, One, sless 1, 8850; Cr. Europerson Co., Devisor, Oko., story L. 8225 and 8225. Structured Steel Propeller Co., Prinkurgh, 8700 and 8780 Millional Steel Products Co., Daylor, Okso, 8779-80 and Stell Products Engineering Co., Spalogfield, Okeo, 8550

In titulion Equipment Co., New York city, 1,000 th, special

Mr. cook \$1.34.

tod: our 123 fer 50 fael ceeks

McCoak Field Cir. 135, Bids and Aversh -Bals were beringer 3,500 vd. A.A. cloth-U. S. Rubber Cu., New York City, 81-52 Volcar Proofing Co. Broothys, 65c, 21 days; 25i-16-days. Book Fish Drope Award -Baj see hid was received June 20 by the six review, McCook Field, under our 424, for 1 Relaw Cir Award - The chief of air server has awarded Air Service No. 123, Buls .- Bids received June 17, or 110.

Proper Instrument Co., Bruchlyn, N. Y., 827 50

Neisonal Stool Products Co., Dayton, Obes, \$24.50 Neisonal Stool Products Co., Dayton, Ohn, \$17, afternate,

Ipon 1, 1 one-men training simings, 2, 1 set Van Dykes of Services. Apreliano, Inn., Stem 1, 529,000, 150 decre; 3, 60,150, 50 decre. \$41,635, \$48,875 and \$42,985, 275 days; 2, \$385, afternation \$345,635, \$205 and \$345, 275 days; McCook Field No 3M, Side and Asset.-Bids received June 15, or 104, by the engagering decrees, are served. Ger-Klenia Airendi Coro , item 1, \$15,000 , 2, \$15,500, pcdays, 3, 210 days; 3, 200 days; 4, 200 days. Banchart Assendt Corp., sten 1, 500,000; 2, 832,500, 3 Barehart Assesser Corp., Mrs. 1, 200,000; 2, 822,000; 2, 825,000; 6, 820,000; \$25,600; 4, \$25,000 j to 50,000 to 5 and make the manager to say the same The Departme Co., stem 1, 845,750, 2, 848,775; 3, 833,800, 4, \$30,000; 5, \$2,500; 6s, \$300; 6s, \$50; 6s, \$60; 150 to 279 EXas & Rev. Per. Avo. 1, 600,600; 2, 632,560; 3, 627. 500; 4, EULDO; 6, 94,000; 6+, 8000; En, 800; 6+, 800; 193

Haff, Balland & Co., Inc., don 1, \$25,000; 2, \$20,000; 3, \$15,000; 4, \$15,000; 6, 50 to 200 days; 5, \$6,000; 6a, \$500; 6b.

Zenith Efficiency Cun

Jane 14 on the Pare-Leut-Party cornel-450 ms, or learthwas wan by Pilot Futer in a Cambon C27 towart place sympassed with an 60 kg. Shore motor. This shap carried a

equipped with a 20-02 by Assaul regime, wen second piters with a total fast consumption of 172 ib., except a newful lead of 462 In to or other contratests who started on the own man found down aware to various cancer, cheef among which were envised trendes. The weather was altegether nefereshie, high

broke the world record made to Lores. Alexander Paucon, New American Records The following new Asserting records promptly established to (Without meful ined)

(Without meful ined)

Abiants Lt. J. & Marrandy, U.S.A.S., LePere Bintons, Liberty 600 kp., (Supercharger) at McCook Field, Deyton, Chin. May 21, 1908 | 10.741 m., 35.230 ft.

Horn, U.S.A.S., U. S. Assor TPL CLASS C (AMPLANES) (With 1000 bg: meris load) Altente 14 H. H. Harry, U.S.A.S., U. S. Army TPI, Liberty 400 hm at William Wright Field, Doyton, Ohn. Mar-22, 1924 5,500 m, 16,732 G Durrice 14, H E Harris, U.S.A.S., U. S Army TP1,

The day's by your in Commissiones was council by the desire of the Turkish officers to thereughly exercise the Duratice Lt H R Harm, U.S.A.S., U. S. Army TPI, Liberty 450 kp., at Wilter Wright Field, Darton, Ohn.

Dancies Lt. H R Harry, U.S.A.S. U. S. Army TP1 5, 1824. 2 kg. 12 mm 46 2 cer CLASS C J (SEAPLANES)

Davidon-Lio, F. W. Weed and J. D. Price, Navy CS2

Aprel over 1900 im. Lin F W Wend and J D Fron, Navy CH2 nerplane, Weight 500 kp at Washington, D, C. Jane 22:23, 1220 129:36 km /kg, 74:17 ns /m The fight nor rade over a 90 km course extending from

Sadi Wins Beaumont Cup The Commodern Bengmont Cup yees, held June 25 at land of the end of the nucli 50 km lap, but received on another from laps, overency a distance of 600 km, in 1 km 37 mm 00 no on 300 km lap (1277 mm/hr) He than

Lafayette Escadrille Memorial A committee of the Ladwycta Ecculedle of the French Army, in which meet of the American volunteer flore econd.

American World Flight

there nation. The following is the schedule which on and

The three American world there who had arrived at

July 7: Produc Abov-Stohue 600 no. 4 hr r Rudow-

British Woold Plinks

July 13 from Lake Kasma, wear Tolora, Japan, to Munits.

came of that fog, which made fyring dangerous.

The British flaces have now peached the end of what may

"The Mail Most Els?" demonstrated on only 2, when Plant Proof angre, corresp. the real-board word, was compelled by a harrowne to make a ship was wrecked and the mint was shaken and beyond had house behind schedule, although very bad weather will or

closes conditions was encountered on waste.

Cleveland Naws

We - Pilot Weeley L. Smith because a venerable old genthe bill of dignity and miner eliments be will be while to eventshiften how he landed at the Glenn L. Martin or 1 - first section consumment, while of 3 20 Art South it, slightly delayed by the tondy arrival of the City New cont trees, Between Clevelend and Charge

As Youl on unpeed hill from my taigs, which I shall perfe on the different and from the a consider of the tight. notive of woman's that the mail had been flowe both ways or leth of which were easied by the late neviral of the seal track from City Post-office, and in no wey estributeble to the Air Mail communities. This fellow was extend by an

Letter and remot over 200 double P. F. Gollies fore over which in their elearness and scope corphanaed strongly the trice of annial abotesymphy. Points of these photographs here at 5 p. m. Art Smith carried the Public News camera has over the some the following day and neural nevial

W. L. Swith earned the opening pictures of the Republican Geor L. Martin Consurveial plane from New York to Berne. same of the flight to Chrisgo, so the remaining 160 on were hade by train, delaying delivery none 25, he Mayour, the Man Remail U.S.M.C., from Schinder with Lieutenant

Paper offices.

The Sendior Accordance Mile Co. of Workets, Kon. has sold 1924 Swallow consequent those costs; to D. L. Garry of the aken well be used by their service non-for servicion Limolin-

AIRPORTS AND AIRWAYS

en reals to Kamus City, E. A. and Mrs. Johnson and

tender in the tro-sector commercial most at Depter next corn in the state of Chickense. Thus is a trobate to the also

The Swallow Company has completed construction of "Mine event in the Dayton Air Roose. This markets, shows in the

races will be printed by Tail Mathendack, who is probably the

The following interesting news was proceed from 2

Freeze greened manager of the Consuct Aircraft Co of 65

"We have been hursotorming in Mune and New Hampshire

"We are here nown for the masser, and hariness a starting

UNITED STATES AIR FORCES

Fact Lant, George C Lendberg, A.S., South Field, to Fran. First Land, Michael E. McHogo, Phillips Field, to Pres. First Licut, Bernard S. Thempson, A.S., success to U. S. Ang 25, for New York City, and thesau to Langley Field.

No. Loret Harry C. Winshart, A.S. Marchall Field, to Son Franceson, sading July 2, for Housekin.
First Laure, Soner S. McCalbonk, A.S., Ballon, 6, Arr. Lieut. Cal Heavy Gusham, A.S., upon completion of m-

First Level, Francis B Valentine, A.S., Mitchel Field, to Seat U.S. Mil Acad. West Press. First Level, Ducke McC Scener, A.S., Changle Field by See Lorest Thomas D White, Inf., detailed to A.S., from Onders June 22, amended to direct Paret Lieut, William St Man Alfred H. Hobley, A.S., NoCook Field, to duty an Colors Aveil M. First Licut. Clements McMulley, A.S., Primary Flying Training not a Sinecure

Orders Agril 26, Capt Occupe R Siminacyre, A.S., amen-ded to record Captage Birelesserve to data at U.S.M.A., West First Laset Chifford C. Natt. A.S., apon completion of for-First Lord Arthur O Lonce, A.S., Schlidge Field, upon

Designation of Lorest Col. Harry Ovakors, A. S., as Com-Designation of Lorel. Del Harry Uraham, A. S., as Com-mandari A.S. Tavi Sch., Langley Field, assessment Capt. Ectand Wastrel Wittman, Inf., transferred to A.S., the Livet Lords P. Helmont, 19th F. Act. Fact Sam-Maj Benry H. Armold, Rockwell Air Int. Dep., Rockwell Park, to Charf A. S., Weshington, Cept. Thumas J. Hanley, Jr., Crisey Field, to Chief A. S.,

assignation by two Lacut, is essentializing as officer, assepted.

Long, Cal. John H. Howard, A.S., Kelly Field, spen re-Orders Aved 26 assessed to read; First Liest, Franklin o July 10, and any time grated, to Actly Frant.
Soc. Liest. Lynam O. Wilmen, 16th Ind., Fort Thomas,
detailed to A.S., A. S. Press Tly Sch., Ecocks Fash.
Soc. Leep. Charjes C., Hagyes, 16th Ind., Fort Thomas, detailed to A.S. A. S. Prem. Phy. Sch., Brooks Fired. Orders May I, Sec. Licut. Peut H. Kammer, A.S., to H. reposed to Fort Soley.

Fard Liberty Motor has Long Life Caronado, Colif., were surprised when opening a croke concoins DeHardand 4A No. 11004 best by the Davier-May H. H. Amaid, Commandant Officer of the Engineer Aur Intervendate Depot, will sevent the final test of this emprethe Part of States and then absented to the Philippines Proso crates, sithough it has traveled a distance equal to the

According to the Training Report just released by the Officer to Chause of the Fixuat Office at the Printery Places carrier, and cash others. The "eight others" are seren The expression "contains some 112 members" as above in

study and lectures. They are to be about not larger they

ten days when they will report again at the Engineering Divi-

Engineering School Students Study L.T.A. May John F Curry, Cupta L. A. Walten, Edward Lough-its, W. B. Mayer, Int Locate B. B. Dulles, After Process, Jr. H. B. Walts, W. B. Phitcher and R. C. Consideral, studied officers of the Acr Service Engravering Division at McCob Finds, Dayton, Okso, left recently for Sent Field, Bullerille

not part to the extent of sending three NESS plane.

Box | and Herbert flew the Diffs. The NDSR's went direct as It ding Field to secure arechy bombs, which were dropped to region and Staff figt A. L. Ebener made parachule a little bard tack, as he spreaded his makin making a hard landous. Linut, Goldsborough's Sky Writing Flight proc. Communications of the Western Profit, Schrödeld for the H. T. has an expect sky writer in the person of

and the pullest 6th by belying the Army "lick" the Nery in the small forchall classic at Hernitals. Scholerough for his versalility and skill.

General Mitchell's Return Forg Gea. William Mitchell, Associant Chief of the Aver-

world floors, having met there on Japon. It in reported that

U. S. NAVAL AVIATION Harri Air Orders Our Geome L. Hart, det. U.S.S. Arresteck, to Navel Ass. (12) Trowns J. Bay, det. Nev. Aur Sta.; Penusola, Do. John H. Laypest, dot. U.S.S. Coldcenin; to temp duly

to U.S. Manusippi involving flying. Louis Charles L. Harden, det Aircraft Solran, Bestle Ph.; La is Coursed A Kree, det Aircraft Soleme. Saude Fit.; Li et Betfett C. Watson, det Arreraft Sophus. Ruttle FR.; /us' Thomas G. Birbards dut Account Sadras, Natific. Lott. John C. Williams, del. Americo Sodena, Sele Fil.: N N-val Aer Ste., NOS Harsyles Eds., Va. Coundy Ben D. Mother (SC), det. Nav. Snough St., N.O.S.,

Lt. (gc) Chronou M. Hond, del. Australit Sydem. Builds. FR.; in U.S.S. Tennesure

Hanryton Bds., Va., to Ameraft Sqd Scap Flort.



Street Greener W., Umauer, det. Nov. Aur Ste., Labelsonni, N. Breende, Patient Styles Novel Reserve Fasce located at Cleve-Een. Sirbard N. Peimer, U.S.N.B.F.S. commanding officer the greated telesis course. The delicency Hadred Naval

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Now that the Democratic Party has also included a global favoring the measuragement of avaisation, it is to be based that some progress well be mode along these lates after alecton. Hugoscents to spring stemal in the bosset of the figure featuring, so it is not welling the meal optimizes that we look forward in the time when the Regubthat we look feature the time when the Regub-

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